

Claim 1, wherein:

a continuous search mode is applied during compensation and control operation of the means for compensating start timing.

5 10. A servo detection control method comprising:
 measuring a servo sector interval, which may occur
 at the time of head change among a plurality of heads;
 calculating head-change time difference from the
 measured value; and

10 compensating start timing of servo detection after
 head change using the result of calculation.

 11. A servo detection control method according to
Claim 10, further comprising:

 measuring the amount of head skew in a disk radius
15 direction using a writing signal in a servo sector after
 the head change; and

 controlling positioning of feed-forward of a head
using the amount of head skew and the time difference.

 12. A servo detection control method comprising:
20 measuring a servo sector interval, which may occur
 at the time of head change among a plurality of heads;
 calculating head-change time difference from the
 measured value;

 measuring the amount of servo sector skew using a
25 servo sector address after the head change; and

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compensating and controlling the servo sector address using the amount of servo sector skew and the time difference.

13. A hard disk drive comprising:

5 a rotary storage medium storing user data and a servo signal;

a head reading the user data and the servo signal, which have been written by the medium;

an actuator driving the head;

10 a controller learning driving of the actuator, said controller comprising: a circuit measuring a servo sector interval, which can occur in a change of the head; calculator change time difference of the head from a value measured by the interval measuring circuit; and a memory
15 for storing a result of calculation of the calculator;

a circuit compensating start timing of servo detection after changing the head using a stored value of the memory;

a sensor detecting a shock from outside; and

20 a circuit for judging whether or not a result of learning by the controller is adopted, using output of the sensor.

14. A hard disk drive according to Claim 13, wherein:

25 the controller further comprises a circuit measuring

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the amount of head skew in a radius direction of the medium using a writing signal in a servo sector after changing the head.

15. A hard disk drive according to Claim 13, further
5 comprising:

a memory storing the amount of head skew; and

a second controller positioning of feed-forward of
the head using the amount of head skew.

16. A hard disk drive according to Claim 15,
10 wherein:

the memory storing a result of calculation is the
same memory as the memory storing the amount of head skew.

17. A hard disk drive according to Claim 13,
wherein:

15 the controller further comprises a circuit measuring
the amount of servo sector skew using a servo sector
address after changing the head.

18. A hard disk drive according to Claim 17, further
comprising:

20 a memory storing the amount of servo sector skew;
and

a second controller compensating and controlling a
servo sector address using the amount of servo sector skew.

19. A hard disk drive according to Claim 18,
25 wherein:

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the memory storing a result of calculation is the same memory as the memory storing the amount of servo sector skew.

20. A hard disk drive according to Claim 13,
5 wherein:

a continuous search mode is applied during learning operation of the controller.

21. A hard disk drive according to Claim 13,
wherein:

10 a continuous search mode is applied during compensation and control operation of the circuit compensating start timing.

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